AMENDMENT TO THE CLAIMS

Claims 1-6 (Canceled).

- 7. (Previously amended) A pharmaceutical composition comprising an inhibitor compound which is capable of blocking the interaction of phosphorylase a with the glycogen targeting subunit (G_L) of protein phosphatase 1, together with a pharmaceutically acceptable exipient or carrier wherein the inhibitor compound comprises a polypeptide having SEQ ID. NO: 1 or a fragment thereof which is capable of binding phosphorylase a.
- 8. (Currently amended) A pharmaceutical composition as claimed in Claim 7 wherein the polypeptide consists of a truncated version fragment of the glycogen-targeting subunit of protein phosphatase 1.
- 9. (Currently amended) A method of identifying an inhibitor compound which is capable of blocking the interaction of phosphorylase a with the glycogen-targeting subunit of protein phosphatase 1 comprising;

providing a polypeptide comprising SEQ ID. NO: 1 or fragment or variant thereof which binds phosphorylase a;

providing a test compound; and

comparing the binding of the polypeptide by phosphorylase a in the presence and absence of the test compound; an inhibitor being identified by reduced binding of the polypeptide in the presence of the test compound.

- 10. (Currently amended) A method as claimed in Claim 9 wherein the phosphorylase a is labelled; the polypeptide is immobilised on a supprt; and
- the binding of phosphorylase a to the polypeptide is determined by measuring the amount of label bound to the support.
- 11. (Previously amended) A method as claimed in Claim 10 wherein phosphorylase a is labelled with a label selected from digoxigenin, ³²P or ³³P.
- 12. (Canceled)
- 13. (Previously amended) A method of reducing the blood glucose level of a mammalian animal comprising administering a therapeutically effective amount of a compound which is capable of blocking the interaction of phosphorylase a with the glycogentargeting subunit $G_{\scriptscriptstyle L}$ of protein phosphatase 1, wherein the compound comprises SEQ ID. NO: 1 or a fragment thereof.
- 14. (Original) A method as claimed in Claim 13 wherein the mammalian animal is a human.

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- 15. (Canceled)
- 16. (Previously amended) The method according to claim 18, wherein the compound is administered to a subject having a disorder associated with higher than normal blood glucose levels.
- 17. (Original) The method according to claim 16 wherein the disorder is selected from type I or type II diabetes.
- 18. (Previously amended) A method of blocking the interaction of phosphorylase a with the glycogen-targeting subunit (G_1) of protein phosphatase 1 comprising:

contacting phosphorylase a with a compound in an amount effective to block the interaction of the phosphorylase a with the glycogen-targeting subunit (G_1) of protein phosphatase 1 wherein the compound is a polypeptide comprising SEQ ID NO:1 or a fragment thereof which is capable of binding phosphorylase a.

- 19. (Previously added) The method according to claim 18 wherein the polypeptide increases the activity of hepatic glycogen synthase.
- 20. (Previously added) A compound which is capable of blocking the interaction of phosphorylase a with the glycogen targeting subunit (G_L) of protein phosphatase 1, wherein the compound comprises a polypeptide having SEQ ID. NO: 1 or a fragment thereof which is capable of binding phosphorylase a.